Claims 1 – 7 (cancelled)

8.   (currently amended) A method of providing access to ~~Program System Information Protocol (PSIP) data stored within at least one XDML document functioning~~ one or more services within a Digital TV Application Software Environment (DASE), the method comprising:

receiving a transport stream having content and one or more applications, wherein the one or more applications provide the one or more services within the Digital TV Application Software Environment (DASE);

using a renderer to interpret and prepare the content for rendering on a display device;

mapping ~~the~~ at least one XDML document to a Document Object Model (DOM) structure, the XDML document having at least one atomic element defined as a "tag" and the DOM having an atomic element defined as a "node;" and

using a declarative application program interface to access Program System Information Protocol (PSIP) data, wherein the declarative application program interface comprises an XDML application program interface module that introduces new tags having semantics that enable HTML pages to perform an active dynamic discovery of at least one of (i) the content and (ii) the services, wherein the XDML application program interface module includes a rule structure for:

defining a condition within the node;

upon satisfaction of the condition, realizing an action defined by the at least one tag, which action is found within the PSIP data; and

otherwise, realizing an action defined by the node.

9.   (original) The method according to claim 8 further comprising the step of rendering the XDML document based on the realized action.

10.   (currently amended) The method according to claim 8 wherein the mapping step comprises identifying all tables ~~locations~~ via a master guide table~~, which further comprises at least one event information table, at least one event text table having a plurality of events listed therein, each event defined by a unique event ID, and at least one virtual channel table having a plurality of virtual channels defined therein, each virtual channel defined by a unique source ID within the virtual channel tables~~.

11.   (currently amended) The method according to claim 10 further comprising the steps of:

defining an object class for each table ~~type~~ identified;

parsing each table;

for each parsed table, constructing an object instance;

generating a DOM root document object;

adding each virtual channel as a child of the DOM root document object; and

adding each event information table as a child of a virtual channel table based on source ID~~;adding each event text tables as a child of the event information table based on event ID~~.

12.   (currently amended) The method according to claim 8 further comprising the step of rendering the realized action for display on a the display device.

13.   (original) The method according to claim 8 further comprising the step of automatically and dynamically updating all referenced actions.

14.   (currently amended) A system that receives DASE-compatible broadcast streams containing video, audio, or data components, or any combination thereof, and renders the component(s) in a manner useful to an end user, the system comprising:

a plurality of smart cards;

~~a~~ PSIP data preserved within a PSIP~~base~~ database, in which service information pertaining to the plurality of smart cards is stored as well as further service information provided by the system independent of the services of the plurality of the smart cards; and

a declarative application program interface configured to access the PSIP data, wherein the declarative application program interface comprises an XDML application program interface module that introduces new tags having semantics that enable HTML pages to perform an active dynamic discovery of at least one of (i) content and (ii) services of a transport stream ~~means for enabling declarative applications found within the broadcast streams to access the PSIP data base and locate a desired service found therein related either to one of the plurality of smart cards or to the services provided by the system,~~ wherein a render is configured to interpret and prepare the content of the transport stream for rendering on an output device.

15.   (cancelled)

16.   (currently amended) The system according to claim 14 wherein ~~the declarative applications are in XDML and~~ the system further includes means for mapping XDML

declarative applications to a Document Object ~~Mode~~ Model (DOM), which is used to enable JavaScript access to the PSIP ~~data-base~~ database.

Claims 17 - 19 (cancelled)

20.   (currently amended) The system ~~apparatus~~ according to claim ~~18~~ 14 wherein the new tags includes ~~and~~ associated unique identification values to access content.

21.   (currently amended) The system ~~apparatus~~ according to claim 14 wherein the content can be generated based on user-inputs.

22.   (new) The system according to claim 14, wherein the services comprise at least one of:

(i) an electronic program guide;

(ii) a weather reports;

(iii) a stock market report;

(iv) television commerce;

(v) a game;

(vi) interactive advertising;

(vii) interactive news

(viii) an interactive TV show;

(ix) an interactive sports broadcast;

(x) TV-gaming;

(xi) TV-auctioning;

(xii) email; and

(xiii) web-browsing.

23.	(new) The method according to claim 8, wherein the services comprise at least one of:

(i) an electronic program guide;

(ii) a weather reports;

(iii) a stock market report;

(iv) television commerce;

(v) a game;

(vi) interactive advertising;

(vii) interactive news

(viii) an interactive TV show;

(ix) an interactive sports broadcast;

(x) TV-gaming;

(xi) TV-auctioning;

(xii) email; and

(xiii) web-browsing.

24. (new) A method of providing access to one or more services within a Digital TV Application Software Environment (DASE), the method comprising:

receiving a transport stream having content and one or more applications, wherein the one or more applications provide the one or more services within the Digital TV Application Software Environment (DASE);

using a renderer to interpret and prepare the content for rendering on a display device; and

using a declarative application program interface to access Program System Information Protocol (PSIP) data, wherein the declarative application program interface comprises an XDML application program interface module that introduces tags having semantics that enable performance of an active dynamic discovery of at least one of (i) the content and (ii) the services.

25. (new) A method as recited in claim 24, wherein the XDML application program interface module includes a rule structure for:

defining a condition within a node;

upon satisfaction of the condition, realizing an action defined by a tag, wherein the action is found within the PSIP data; and

otherwise, realizing an action defined by the node.

26. (new) The method as recited in claim 25, further comprising the step of rendering the XDML document based on the realized action.

27.   (new) The method as recited in claim 25, further comprising the step of rendering the realized action for display on the display device.

28.   (new) The method as recited in claim 25, further comprising the step of automatically and dynamically updating all referenced actions.

29.   (new) The method as recited in claim 24, wherein the services comprise at least one of:

(i) an electronic program guide;

(ii) a weather reports;

(iii) a stock market report;

(iv) television commerce;

(v) a game;

(vi) interactive advertising;

(vii) interactive news

(viii) an interactive TV show;

(ix) an interactive sports broadcast;

(x) TV-gaming;

(xi) TV-auctioning;

(xii) email; and

(xiii) web-browsing.